

## POLYMERS



DAN SALSINGER CPESC

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### What polymers can do:

- Storm water clarification- sediment control
- Soil stabilization- erosion control
- Soil thickening- construction activity aide

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### Why Polymers ?

Because by themselves, mechanical practices (silt fences, blankets, sediment basins, ect.) do not adequately control erosion and sedimentation...

- > leaving construction site water discharges turbid
- > costing owners and contractors money, grading rework, and structural damage.

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## POLYMERS

- The generic name for these products is PAM (polyacrylamide)
- Typically used in conjunction with other management practices.
- Relevant information pertaining to PAM use for erosion and sediment control can be found at:
  - <http://kimberly.ars.usda.gov/pampage.shtml>
  - <http://kimberly.ars.usda.gov/pamprim.shtml>
  - [www.dcr.state.va.us/swdoc/anionic.pdf](http://www.dcr.state.va.us/swdoc/anionic.pdf)
  - [www.siltstop.com](http://www.siltstop.com)
  - [www.priceandcompany.com](http://www.priceandcompany.com)
- Relevant information on these web sites answers all questions about:
  - Plant, Human and wildlife toxicity
  - Bioaccumulation within plant or soil structures
  - Polymer residue
  - Handling precautions



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## Three steps are needed for performance:

1. Proper polymer selection
2. Proper use & introduction
3. Mixing of polymer



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## Polymer Types:

- Emulsion
- Granulated
- Gel block



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### What needs to be maintained?

- Floc logs need to be checked often
- Clean out floc pits
- Clean and recharge baffle panels
- Redo any hydro mulched areas that have been disturbed
- Redo areas when needed for temporary shut down
- Apply again after 2-3 months (temp. stab.)
- Is the water cleaner?

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